Information and Knowledge Acquisition → The Feedback Loops

- Patient Dialogue Engine: Individualized Communication
 - → Generated using Information and Knowledge Base
 - → Interface with Rendering Engine
 - → Feedback to Information Base
- Care Management Engine: Just-in-time Care
 - → Generated using Information and Knowledge Base
 - → Feedback to DSTs
- Research Engine: Real-time Research
- → Interface to Dialogue Engine [when new data is required] → Interface to Information Base [extract existing data]
- → Feedback to Knowledge Base [new discoveries]

Contribution to Innovations Health Hero Network

Current Status

New Innovations

Patient Dialogue Engine

- customized programs Pre-packaged, mass
 - **Content libraries** Health Buddy
- Care Management Engine
- Risk stratification
- Organizational workflow and efficiency tools
- Manual feedback process

Research Engine

Data Export to SAS



Organizational optimization Automated feedback loop

Intelligent risk tuning and link to DSTs

Interface to Rendering Engine

for any device

knowledge base rules applied

to information base

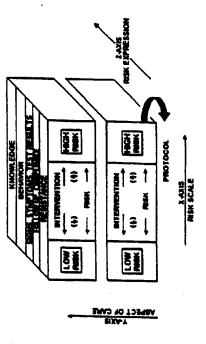
Content generated by

Automated individualization

- Identify subgroups and correlations
- Test hypotheses on living database

Integrating Feedback Loops Within MedKnowledgeMent

- Application Program Interfaces
- Standards for Data Classification
- Ontology for Information and Knowledge **Used in Feedback Process**

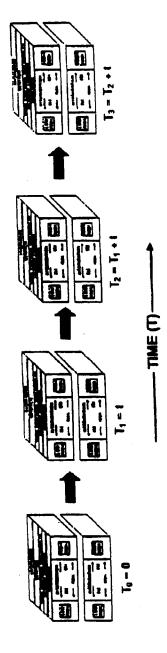


A 3-DIMENSIONAL MODEL OF DISEASE

Feedback Process

knowledge in a continuous process that leads to Overall goal is apply and generate medical lowest achievable risk resulting in:

- → Higher quality of life
- → Improved clinical outcomes
 - → Lower cost of care



Expected Results

- Reduced emergency department encounters and hospitalizations by detecting patient problems before they become a crisis.
- Improved patient compliance by educating, motivating and monitoring health status and by providing personalized and relevant information.
- information to healthcare professionals through quality assured processes Improved safety and quality of care by providing timely and actionable that can be continuously improved.
- interconnected monitoring and information systems, rather than fragmented, Continuity of care, particularly for the elderly, through integrated, episodic, and crisis driven care.